Service schematics

Nokia Lumia 630

RM-976 / RM-977

Lumia 630 Dual SIM

RM-978

IMPORTANT

This document is intended for use by authorized Nokia service centers only. Please use the document together with other documents such as the Service Manual and Service Bulletins.

Version information

While every effort has been made to ensure that the document is accurate, some errors may exist. Please always check for the latest published version for this document.

v1.0 - 16.05.2014
-First approved version.

Version differences

This document will cover following releases:

Nokia Lumia 630, RM-976, Board: 4GG_09b (ROW)
Nokia Lumia 630, RM-976, Board: 4GG_09c (ROW)
Nokia Lumia 630, RM-977, Board: 4GH_09f (Americas)
Nokia Lumia 630, RM-977, Board: 4GH_09g (Americas)
Nokia Lumia 630 Dual SIM, RM-978, Board: 4GJ_09j (ROW)
Nokia Lumia 630 Dual SIM, RM-978, Board: 4GJ_09k (ROW)

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BOM & VARIANT SELECT

R4250

	56k	22k	10k	4k7	1k8
R4251=56k	b	c	d	e	f
R4251=22k	g	h	i	j	k
R4251=10k	l	m	n	o	p
R4251=4k7	q	r	s	t	u
R4251=1k8	v	w	x	y	z

BOM & VARIANT VISUAL INDICATION

R1013 = 4GK BOM N
R1014 = 4GK BOM O
R1005 = 4GH BOM F
R1006 = 4GH BOM G
R1001 = 4GG BOM B
R1002 = 4GG BOM C

CTEMP
R4292 62k
R4299 22k
R4289 100k
R4291 22k
BOM_DET
VREG_L12
C4217 1u
R4201 100k
R7569 100k
*R4250 (TABLE)
*R4251 (TABLE)
XO_THERM
B4200
C4252 1n
Crystal oscillator
19.2 MHz
100k NTC

VREG_L9_RF
VREG_L17_EMMC
VREG_L16_WLAN
VREG_L18_MEMCARD
VREG_L19_CAMVANA
VREG_L14_RFFE
VREG_L15_UI
VREG_L28_VIBRA
C4279 1u
C4220 2u2
C4219 1u
C4253 82p
C4224 4u7
C4223 4u7
C4221 4u7
C4214 4u7
C4254 1n
C3203 220n
C3207 4u7
C4222 4u7

VREG_S4
L4204 2u2H
C4235 22u
VREG_S2_KR
L4202 0u24H
C4233 47u
C4892

VREG_WLED
VPH_PWR
VREG_L21
CABC_WLED_GPIO
L4207 10u
V4200
C4270 4u7
C4826 1u
C4226 1u

VREG_L2_DDRCORE
C4851 1u
C4853 1u
C4854 1u
C4855 1u
C4821 1u
C4822 1u
C4823 1u
C4824 1u
C4207 4u7

VPH_PWR
L4205 1uH
VREG_L6_IO
C4284 68p
C4283 68p
C4282 27p
C4281 27p
C4203 2u2
C4247 22u
C4202 2u2
C4201 2u2
C4204 22u
C4200 2u2
C4236 10u
C4273 1u
C4257 470n
C4836 100nF
C4833 100nF
C4898 47p
C4897 47p
C4832 100nF
C4211 4u7
C4846 1u
C4848 100nF
C4849 100nF
C4850 100nF
C4827 100nF
C4828 100nF
C4829 100nF
C4830 100nF

VBATT_SENSE_P
VBATT_SENSE_M
R4266
J2000
X2001
VBATTERY
BSI
J2001
J2002
C2001 27p
C2000 56p
C2002 27p
C2003 82p
C4249 100n
C4244 4u7
R2003 220R
R4202 100k
R2004 4V/15V
C2005 82p
R4203 62k
VREF_BAT_THM
BTEMP
R2000 47k
R2002 8k45

C4276 4u7
C4277 1u
C4216 1u
C4218 1u
C4258 1u
C4250 100nF
C4278 4u7
C4243 100nF
C4238 4u7
C4239 4u7
C4242 100n
C4241 10n

VREG_S3
L4203 1uH
C4234 22u

VOL_DOWN/RESET
R4406 100R
S4403
R4403 18V/60V
C4402 10n
J4400
POWER
R4404 100R
S4401
R4401 18V/60V
C4400 10n
J4201
J4203
J4204

N4200

146	MPP2	
130	MPP7	
132	MPP5	
144	MPP6	
71	VREG_L12	
120	XO_THERM	
5	XTAL_19M_IN	
6	XTAL_19M_OUT	
128	VREG_L9	
19	VREG_L16	
32	VREG_L18	
29	VREG_L19	
49	VREG_L14	
43	VREG_L15	
50	VREG_L28	
18	VREG_L17	
30	VREG_L17	
81	VSW_S4	
27	VIN_GR4	
70	VREG_L25	
95	VREG_S4	
115	VIN_GR3	
58	VSW_S2	
45	VSW_S2	
46	VSW_S2	
56	VREG_S2	
160	GPIO_6	
53	VREG_L21	
138	VSW_WLED	
137	OVP_WLED	
3	VREG_L2	
154	VSW_CHG	
166	VSW_CHG	
131	BMS_BYP	
106	VREG_L6	
105	VREG_L6	
107	BMS_CSP	
96	BMS_CSN	
139	VBAT	
151	VBAT	
163	VBAT	
156	VBAT_SNS	
73	AMUX_2	
169	VREF_BAT_THM	
72	AMUX_1	
127	VREG_L27	
25	VREG_L5	
16	VREG_L11	
14	VREG_L13	
121	AVDD_BYP	
129	REF_BYP	
76	VCOIN	
170	VPRE_BYP	
143	VCHG	
155	VCHG	
162	OVP_OUT	
171	OVP_CP_DRV	
167	VDRV_P	
35	VSW_S3	
4	VIN_GR1	
11	VIN_GR2	
36	VREG_S3	
1	VIN_GR2	
101	RESIN_N	
102	KPD_PWR_N	
85	CBL_PWR_N	

RF_CLK 13 — XO_RF
RF_CLK2 39 — XO_WLAN
WLED1 125 — WLED_DRV_N
GPIO_1 124 — PMIC_AUDIO_REF_CLK 1 — AUDIO_CTRL[50-0]
4 CDC_RST
5 CDC_INT

USB_IN 161
USB_IN 172
VBUS
C4246 1u
R4297 47k
C4285 68p
Z3300
V3300
J3300
C3300 68p
X3300
J3303
J3302
J3301
Z3301
DP_ext
DM_ext
DP_int
DM_int
C2 ID
GND C1

SPMI_CLK 112
SPMI_DATA 123
MPP1 159 VREF_MSM_PX_MPP1
C4864 100nF
C4810 100nF

VREG_LVS 94 VREG_LVS1
C4275 1u
C4861 100nF

MPP3 158 VREF_LDO_MPP3
C4901 100nF

VREF_LPDDR 61 VREF_LPDDR2
C4274 100nF
C4900 100nF

VREG_L1 15 VREG_L1_RF
C4206 4u7
C4255 1n
C4879 100nF
C4875 100nF

VREG_L3 2 VREG_L3
C4208 4u7
C4882 1u
C4883 1u
C4801 1u
C4802 1u
C4894 1u
R4823 0R
C4888 100nF

VREG_L4 37 VREG_L4
C4104 100nF
C4209 1u
C4877 100nF
C4876 100nF

VREG_L7 116 VREG_L7
C4886 100nF
C4874 1u

VREG_L8 118 VREG_L8_PLL
C4865 100nF
C4866 100nF
C4871 100nF
C4872 1u
C4878 100nF

VREG_L10 38 VREG_L10
C4215 1u
C4857 100nF

VREG_L20 55 VREG_L20_USB
C4856 1u

VREG_L22 52 VREG_L22_SIM
C4227 1u

VREG_L23 51 2nd SIM
C4228 1u
C4885 100nF

VREG_L24 12 VREG_L24_CWS
C4229 4u7
C4873 100nF

VSW_S1 8
VSW_S1 21
VREG_S1 20
L4201 0u24H
C4205 47u
C4890
C4891

SLEEP_CLK 88 MSM_SLEEP_CLK — J4802
PON_RESET_N 77 PON_RESET — R4809 0R
BB_CLK1 31 XO_MSM_19M — R4298 33R
BB_CLK1_EN 44 XO_MSM_EN — J4801
GPIO_7 134 TX_MASK — AV5
GPIO_4 135 PM_BATT_ALARM — J4205
PS_HOLD 100 — J4206

D4800

K35	GPIO_72	
M35	GPIO_68	
F21	USB_HS2_DM	
E22	USB_HS2_DP	
G28	PMIC_SPMI_CLK	
D27	PMIC_SPMI_DATA	
N4	VREF_SDC	
D19	VREF_UIM	
G26	VDD_QFPROM_PRG	
U6	VREF_APC_MPM	
Y39	VREF_DQ	
AC7	VREF_CA	
AF33	EBI0_VREF_D0	
P33	EBI0_VREF_D1	
AM29	EBI0_VREF_D2	
J30	EBI0_VREF_D3	
AN10	EBI0_VREF_CA	
AH7	VDD_A1	
AK7	VDD_A1	
AA10	VDD_TXDAC	
AP25	VDDA_MIPI_CSI	
AY17	VDD_MIPI_DSI_1P2	
AJ8	VDD_A2	
Y7	VDD_A2	
T29	VDD_PLL2	
AC10	VDD_PLL2	
N20	VDD_PLL2	
AM19	VDD_MIPI_DSI_1P8	
F19	VDD_USB_1P8	
H21	VDD_USB_3P3	
E10	VDD_P5	
E18	VDD_P6	
T33	VDD_WLAN	
H7	VDD_SDC_CDC	
K7	VDD_SDC_CDC	
F23	VDD_USB_CORE	
B35	SLEEP_CLK	
D33	RESIN_N	
G20	USB_HS2_SYSCLK	
L6	CXO	
B27	CXO_EN	
AV5	GPIO_87	
B3	GPIO_61	
C34	PS_HOLD	

VREG_LVS1
VREG_L1_RF
VREG_L3
VREG_L4
VREG_L10
VREG_L22_SIM
VREG_L23
VREG_L24_CWS
VREG_S1_CORE

TX_DAC0_IM AB5 L4801 82nH 0
TX_DAC0_IP AB3 L4802 82nH 1
TX_DAC0_QM Y1 L4803 82nH 2
TX_DAC0_QP W2 L4804 82nH 3
C4841 22p
C4842 22p
C4843 22p
C4844 22p

GPIO_79 AT36 WTR0_TXM_CTL0 0
GPIO_83 AT36 WTR0_TXM_CTL1 1
GPIO_84 AV7 WTR0_TXM_CTL2 2
GPIO_85 AR10 WTR0_TXM_CTL3 3
GPIO_86 AY5 WTR0_TXM_CTL4 4
GPIO_81 AR12 WTR0_PA_R0 5
GPIO_82 AP13 WTR0_PA_R1 6
GPIO_78 AN14 WTR0_PA_ON1_B8 7
GPIO_76 AP15 WTR0_PA_ON2_B2 8
GPIO_77 AU12 WTR0_PA_ON3_B5 9
GPIO_75 AV11 WTR0_PA_ON4_B1 10

BBRX_CH0_IP AG2 0
BBRX_CH0_IM AH1 1
BBRX_CH0_QP AG4 2
BBRX_CH0_QM AG6 3

GPIO_99 AR6 RFFE_CLK 1
GPIO_100 AT7 RFFE_DATA 0

GPIO_80 AT11
GPIO_101 U4 J4950 SSBI_PRX_DRX
GPIO_102 U2 J4951 SSBI_GNSS
TX_DAC0_IREF AA6

GPIO_95 AV3 GSM_TX_PHASE_D0 0
GPIO_96 AV1 GSM_TX_PHASE_D1 1

GPIO_71 C28 SLIMBUS_DATA 0
GPIO_70 A28 SLIMBUS_CLK 1

GNSS_BB_IP AN4 0
GNSS_BB_IM AM3 1
GNSS_BB_QP AR4 2
GNSS_BB_QM AP3 3

GPIO_105 T5 GPS_LNA_EN

GPIO_45 AC38
GPIO_46 W40
GPIO_39 Y37

GPIO_47 AD39 BT_CLK 0
GPIO_48 AC40 BT_DATA 1

GPIO_40 R40 WL_DATA2 2
GPIO_41 N38 WL_DATA1 1
GPIO_42 T39 WL_DATA0 0
GPIO_43 V37 WL_SET 4
GPIO_44 P39 WL_CLK 3

WLAN_BB_IM U34 0
WLAN_BB_IP V35 1
WLAN_BB_QM P35 2
WLAN_BB_QP R34 3

VREG_L6_IO
R4956 2k2
R4957 2k2
GPIO_10 AB37 I2C6_SDA
GPIO_11 AC34 I2C6_SCL
USB2_HS2_REXT A22
EBI0_CAL_REXT AM9
EBI0_ZQ0 AD1
WLAN_REXT U32
NC F27
NC E28
R4829 1M
R4828 1M
R4805 3k92
R4801 240R
R4802 240R
R4803 200R

VDD_MIPI_DSI_OP AL16
MIPI_DSI_LDO AM23 L4800 2u2
C4880 2u2

GPIO_106 J40 VOL_UP_KEY
R4405 100R
C4401 10n
VOL_UP
R4402 18V/60V
S4402

TX_BB_IQ[3-0]
FRONTEND_CTRL[35-0]
PRX_BB_IQ[3-0]
RFFE[1-0]
RF_ON
SSBI_RF2
SSBI_RF1
DAC_IREF
GP_DATA[4-0]
SLIMBUS[2-0]
GNSS_BB_IQ[3-0]
GPS_LNA_EN
FM_SSBI
FM_DATA
BT_SSB
BT_DATA[1-0]
WL_CMD[4-0]
WL_BB_IQ[3-0]

7,9,10,34,41,47,48,59,60,79,93,104,126,152,164=VPH_PWR
11,17,22,23,33,57,62,63,64,65,67,68,69,74,75,78,86,87,92,98,99,108,109,110,113,114,117,119,142,150,153,165=GND

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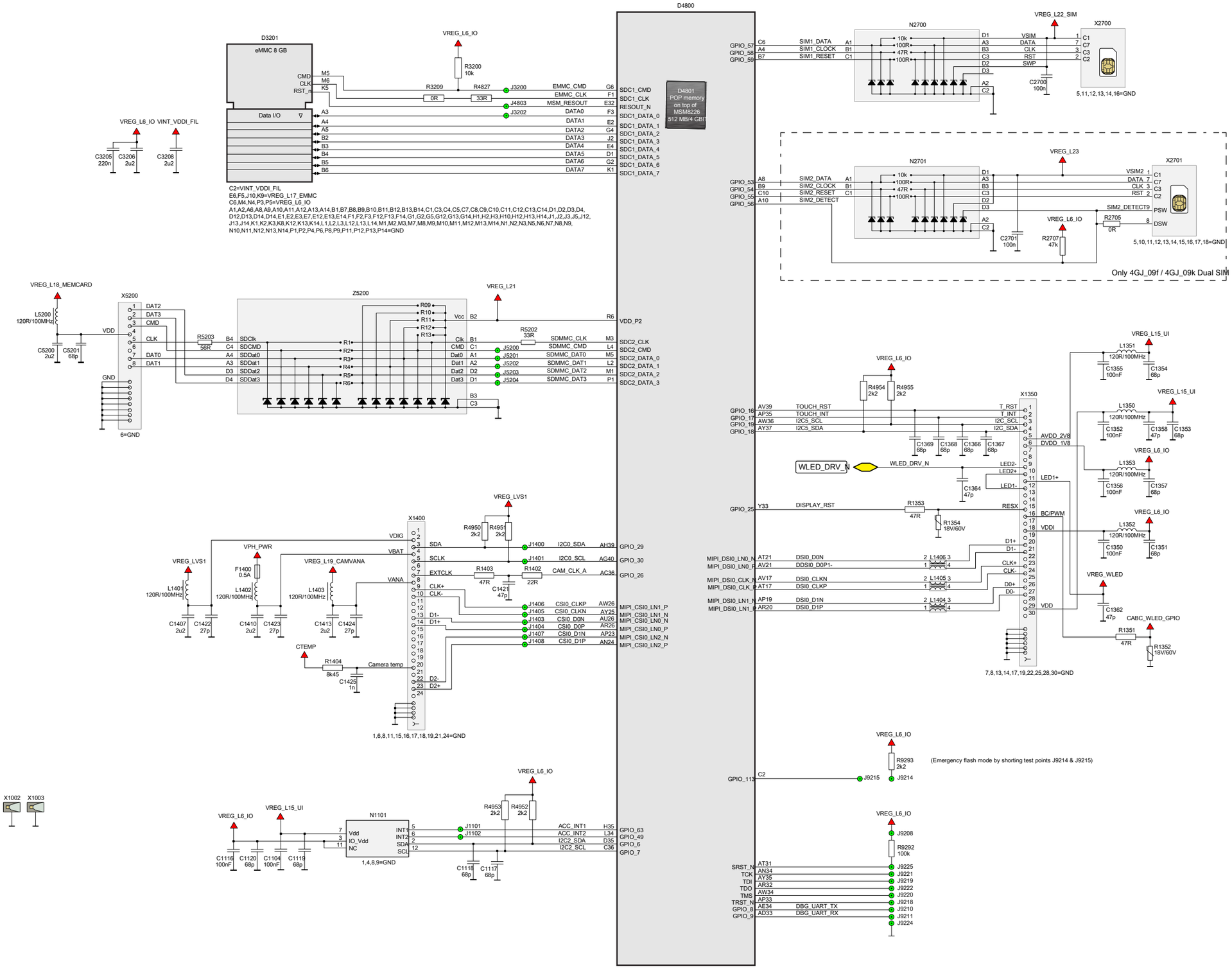

AF39,AJ2,AM39,AN2,AT39,AU2,AU36,AW16,AW32,AY13,AY21,B19,B23,B33,B37,F39,M39,W38,V39=VREG_L2_DDRCORE
AA12,AA14,AA28,AC18,AC28,AD19,AD23,AD31,AE10,AE26,AE28,AF19,AF23,AF31,AG28,AH11,AH13,AH15,AH17,AH19,AH23,AH31,AJ10,AJ24,AJ28.L30,L14,L32,M23,M25,N22,N26,N32,P27,R20,R22,R30,T23,T27,W12,W18,W20,W20=VREG_L3
A18,A34,A81,AA34,AB39,AG34,AK33,AL8,AM13,AN16,AY7,AY33,B5,C18,H25,H27,H31,J8,J24,J34,V7,Y35=VREG_L6_IO
AA16,AA18,AA22,AA24,AA30,AB21,AB23,AB27,AB29,AC14,AC16,AC24,AC30,AD13,AD15,AD21,AE14,AE16,AE18,AE24,AE30,AE32,AF21,AG18,AG26,AH21,AJ14,AJ20,AJ26,AJ30,AK11,AK13,AK15,AK15,AK19,AK21,AL14,AL20,AL26,AL30,AM21,J20,L20,L26,M27,N28,N30,P23,P25,P31,U20,U22,U26,W14,W16,W22,V23,V27,W30,Y23,Y27,Y29=VREG_S1_CORE
G12,G14,G16,J10,J12,J16,J18,L8,L10,L12,L16,L18,N8,N10,N12,N14,N16,N18,R8,R10,R12,R14,R16,R18,U8,U10,U12,U14,U16,U18,W8,W10=VREG_S2_KR
A2,A6,A12,A14,A16,A20,A26,A32,A36,A38,A40,AA4,AA8,AA20,AA26,AA32,AA40,AB7,AB9,AB11,AB13,AB15,AB17,AB19,AB25,AB31,AB33,AC4,AC6,AC8,AC12,AC20,AC22,AC26,AC32,AD3,AD5,AD7,AD9,AD11,AD17,AD25,AD27,AD29,AE2,AE4,AE6,AE8,AE12,AE20,AE22,AE36,AE38,AF1,AF3,AF5,AF7,AF9,AF11,AF13,AF15,AF17,AF25,AF27,AF29,AG8,AG10,AG12,AG14,AG16,AG20,AG22,AG24,AG30,AG32,AG36,AG38,AH3,AH5,AH9,AH25,AH27,AH29,AH33,AH37,AJ4,AJ6,AJ12,AJ16,AJ18,AJ22,AJ32,AJ34,AJ38,AK1,AK3,AK5,AK9,AK17,AK23,AK25,AK27,AK29,AK31,AK37,AK39,AL2,AL4,AL6,AL12,AL18,AL22,A
AM27,AM31,AM33,AM37,AN8,AN12,AN18,AN20,AN22,AN26,AN28,AN32,AN38,AN40,AP5,AP7,AP9,AP17,AP21,AP27,AP31,AP39,AR18,AR28,AR30,AT1,AT9,AT15,AT23,AT25,AT29,AU10,AU14,AU18,AU20,AU24,AU28,AU30,AV13,AV15,AW2,AW4,AW8,AW12,AW18,AV19,AW20,AV23,AW24,AV25,AV29,AW30,AW38,AW40,AV9,AY1,AY3,AY19,AY29,AY31,AY39,B1,B11,B13,B15,B17,B21,B25,B39,C8,C12,C14,C16,C20,C30,C32,D7,D9,D11,D13,D15,D17,D21,D29,D31,E12,E14,E16,E20,E30,E34,E36,E38,E40,F9,F11,F13,F15,F17,F33,F35,F37,G8,G10,G18,G30,G32,G36,G38,H1,H3,H5,H9,H11,H13,H15,H17,H19,H23,H29,J
K19,K21,K23,K25,K27,K27,K29,K31,K33,K37,L22,L24,L28,M7,M9,M11,M13,M15,M17,M19,M21,M29,M31,M33,M37,N2,N6,N24,N34,N36,N40,P3,P7,P9,P11,P13,P15,P17,P19,P21,P29,P37,R4,R24,R26,R28,R32,R36,T7,T9,T11,T13,T15,T17,T19,T21,T25,T31,T35,U24,U28,U30,U36,U40,V1,W4,W24,W26,W28,V3,W32,W34,W36,V5,V11,V13,V15,V17,V19,V21,V25,V29,V31,V33,W6,V9,Y5,Y9,Y11,Y13,Y15,Y17,Y19,Y21,Y25,Y31=GND

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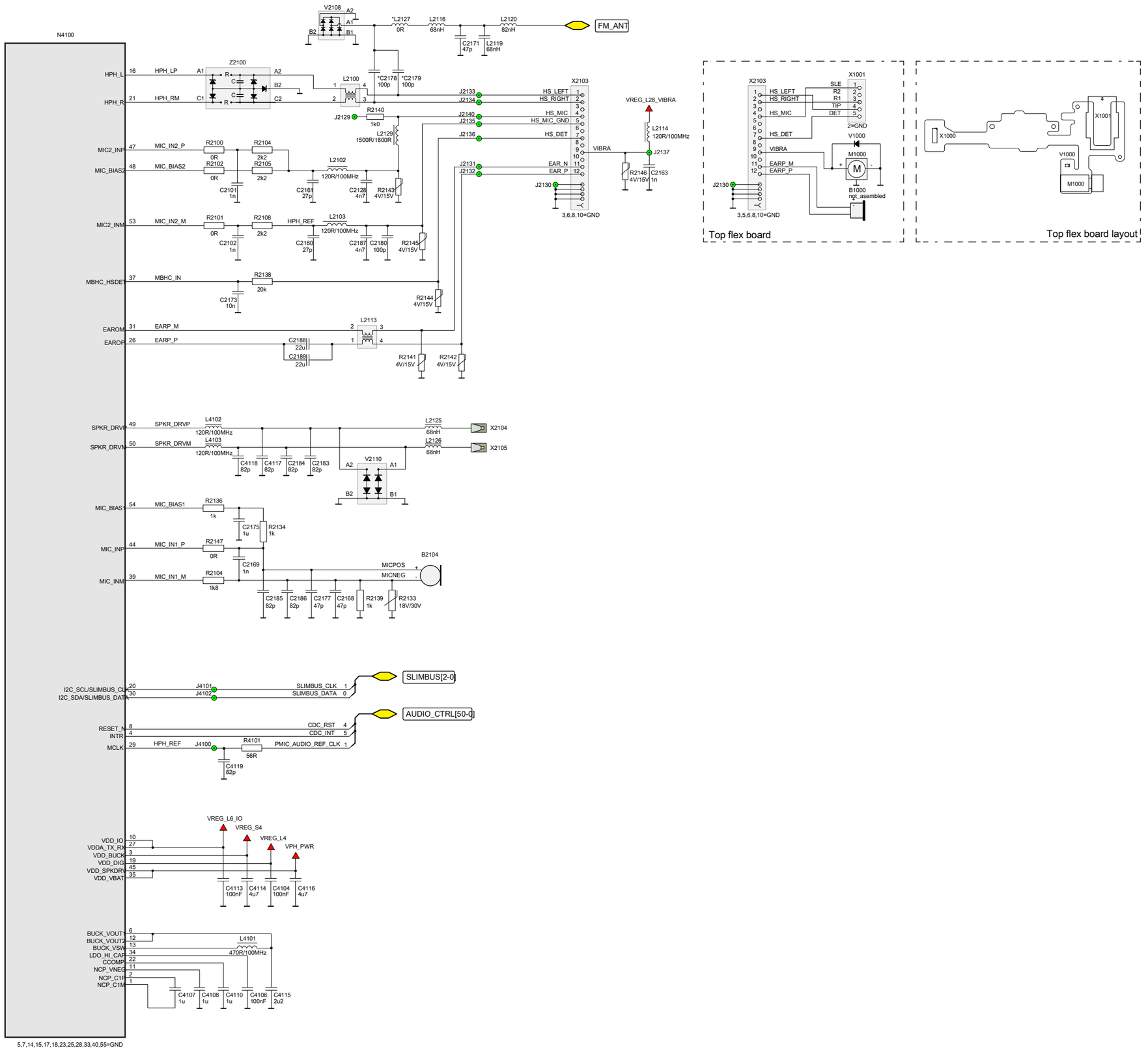

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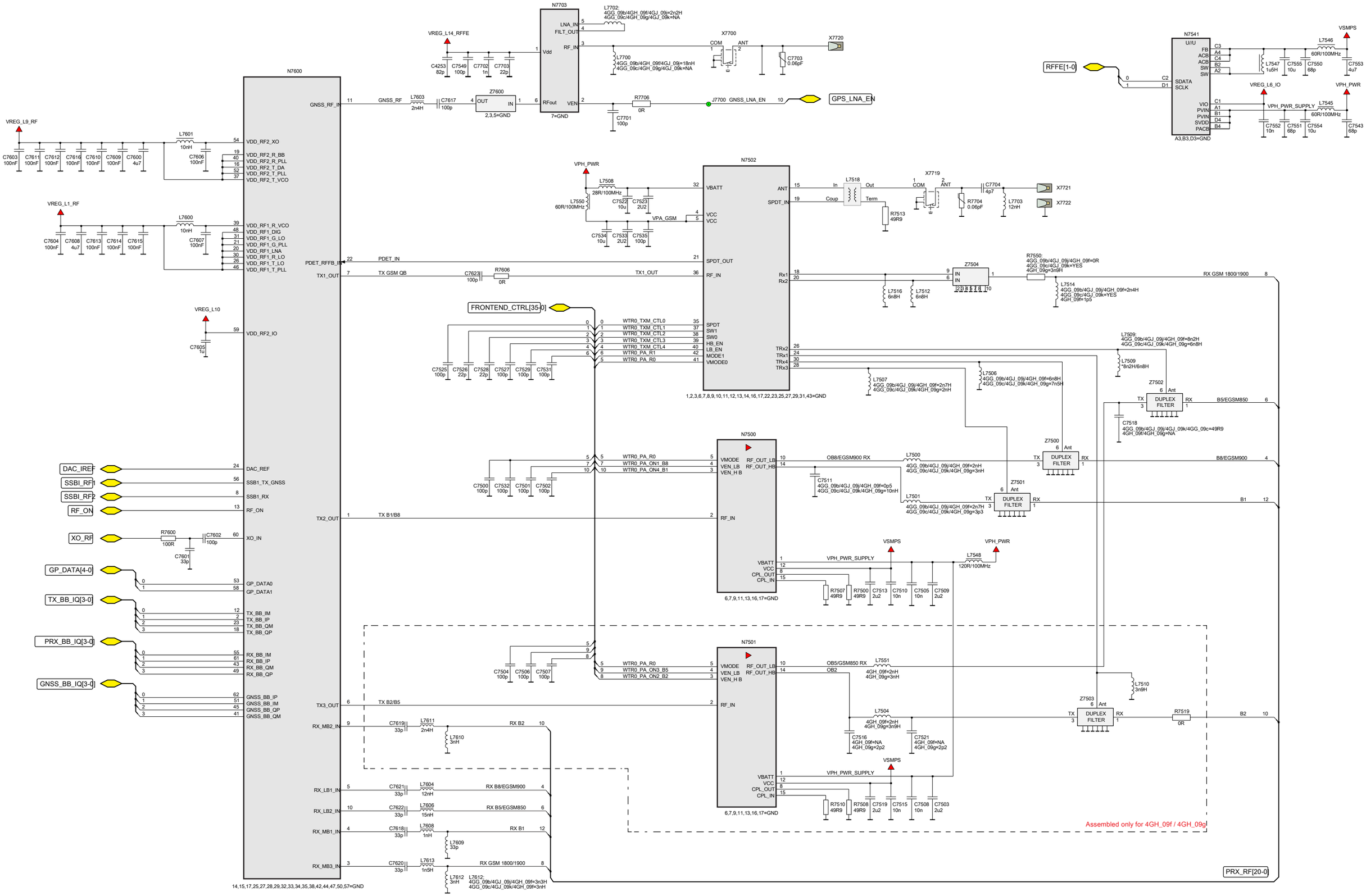

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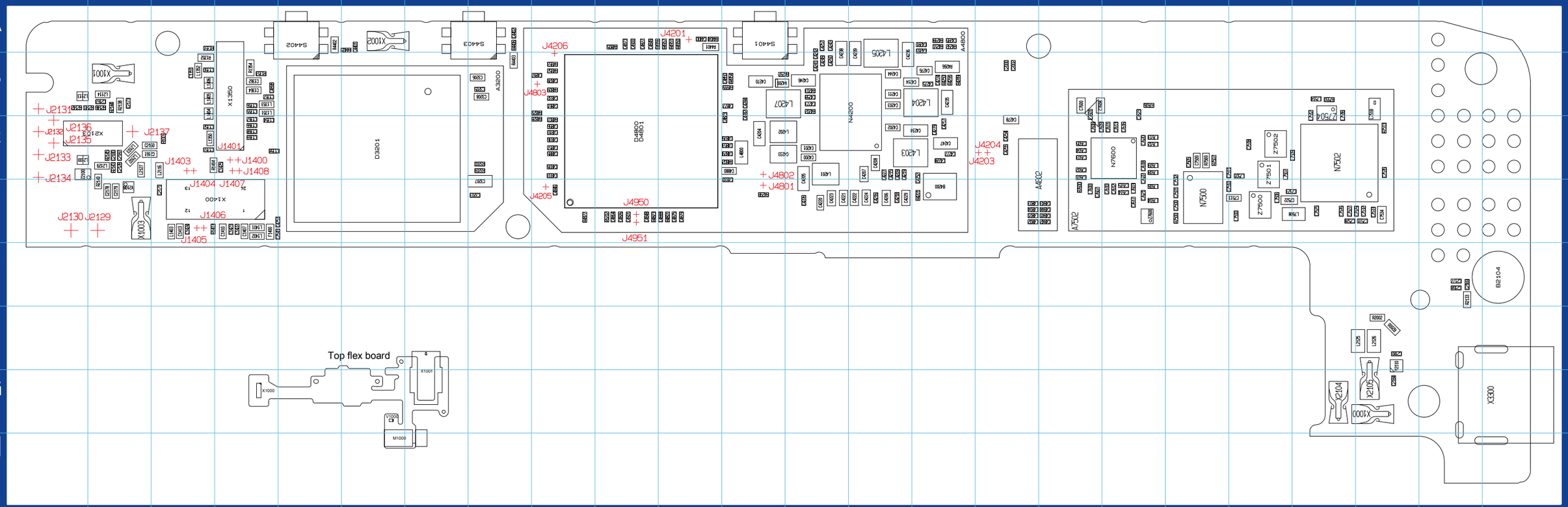

B		C1413	E22	C2187	F23	C4218	E11	C4246	G12	C4284	G13	C4848	E15	C7501	E6	C7600	G8	C7622	F7	L2103	F23	L7506	E5	N7600	F7	R3209	F17	R4803	F16	R7600	E8	Z		J2130	E24
B2104	D1	C1422	E21	C3203	E17	C4219	F11	C4247	F10	C4285	H10	C4849	H15	C7502	E6	C7601	F8	C7623	G7	L2113	G24	L7507	F5	R		R4201	E10	R4805	H15	R7606	G7	Z2100	F24	J2131	G24
B4200	E10	C1423	E21	C3205	G17	C4220	E12	C4249	G12	C4400	H14	C4850	G13	C7505	F6	C7602	F8	D		L2114	G23	L7508	E4	R1001	F22	R4202	G12	R4809	G16	S		Z4200	E12	J2132	F24
C		C1424	E22	C3206	G17	C4221	E12	C4250	G12	C4401	H19	C4853	F13	C7509	F6	C7603	F8	D3201	F19	L2116	F22	L7509	F4	R1351	H22	R4203	G12	R4823	E15	S4401	H13	Z4201	F12	J2133	F24
C1350	G22	C1425	F21	C3207	E17	C4222	E11	C4252	F10	C4402	H17	C4856	F16	C7510	E6	C7604	F8	D4800	F15	L2125	C3	L7512	G4	R1352	G22	R4250	G10	R4827	E16	S4402	H20	Z4202	F11	J2134	F24
C1351	G22	C2000	G9	C3208	G17	C4223	E12	C4253	E21	C4810	F16	C4857	F16	C7511	F6	C7605	F8	D4801	F15	L2126	C3	L7514	G4	R1353	G21	R4251	H10	R4828	F16	S4403	H17	Z4203	G10	J2135	F24
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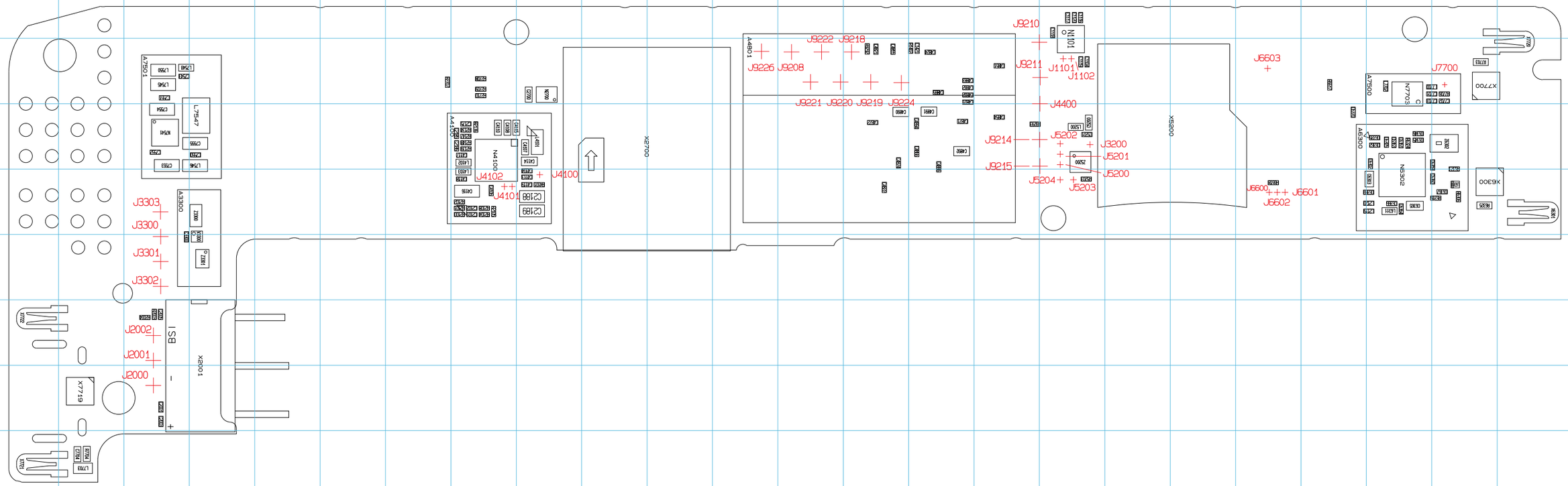

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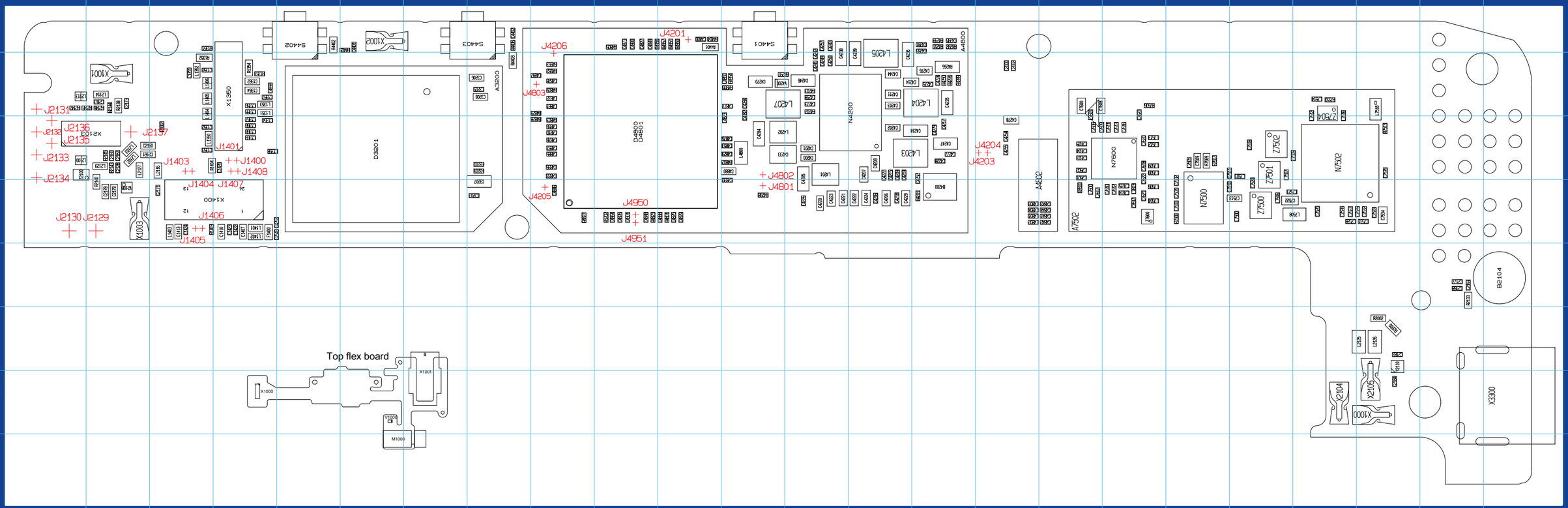

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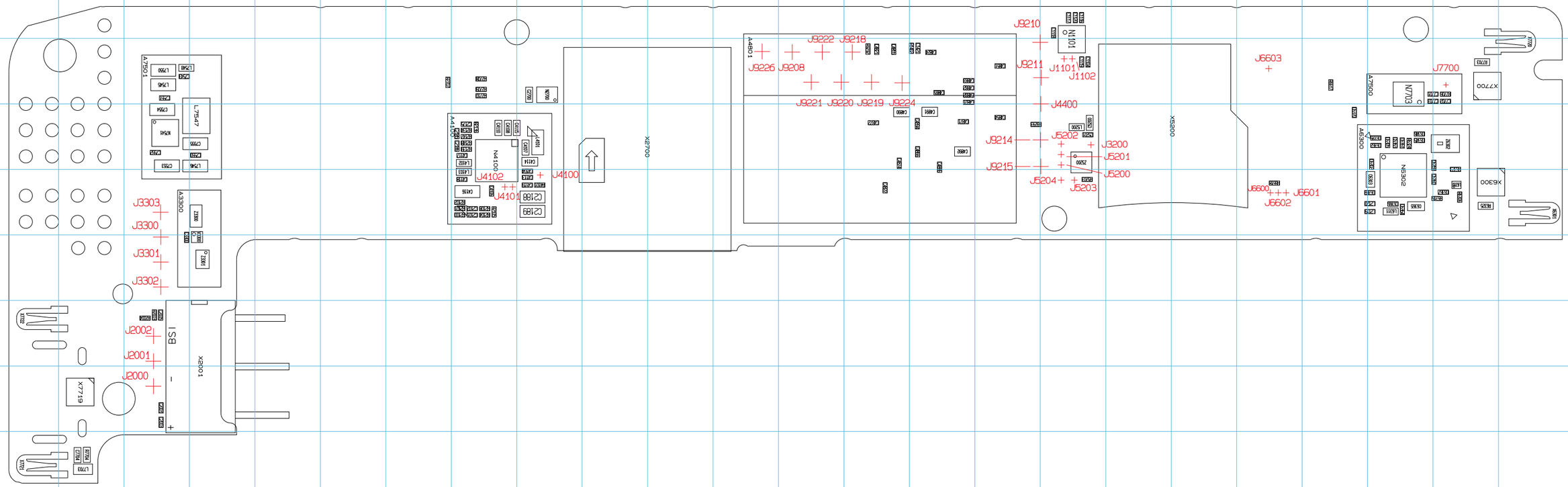

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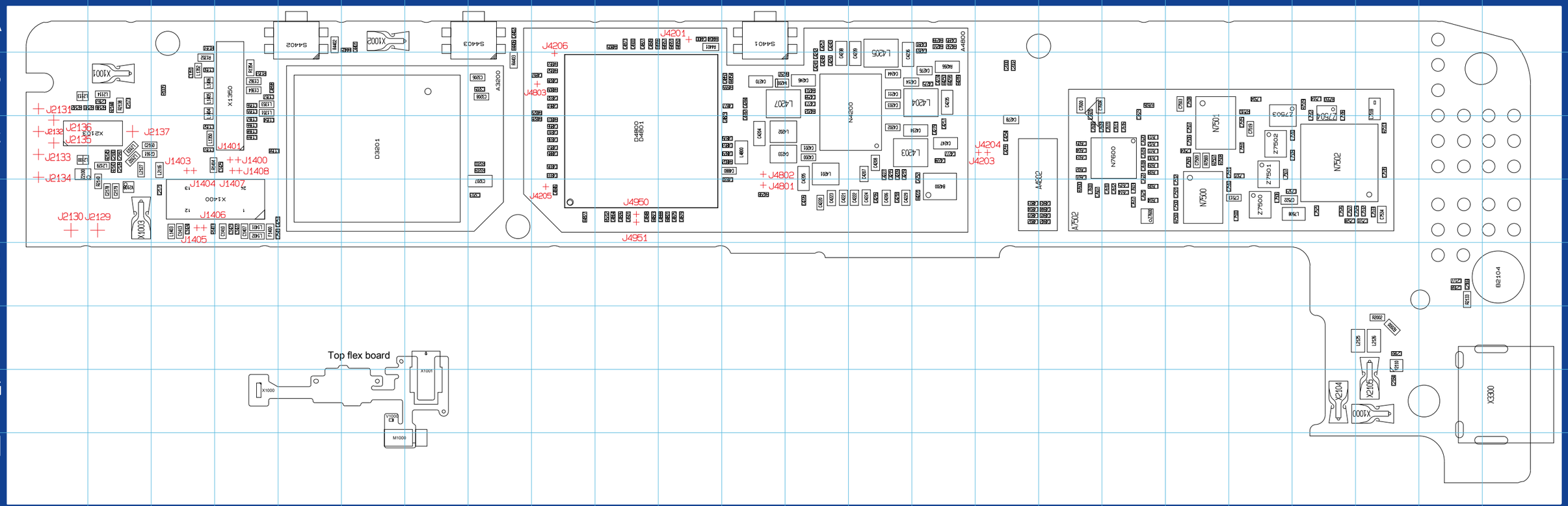

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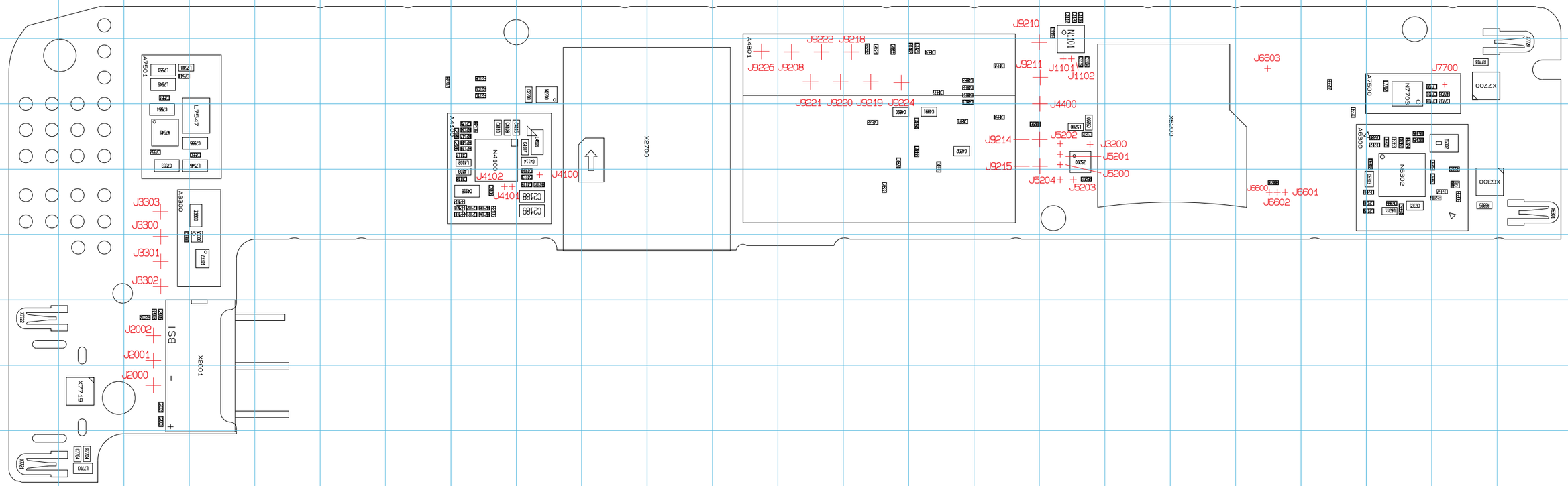

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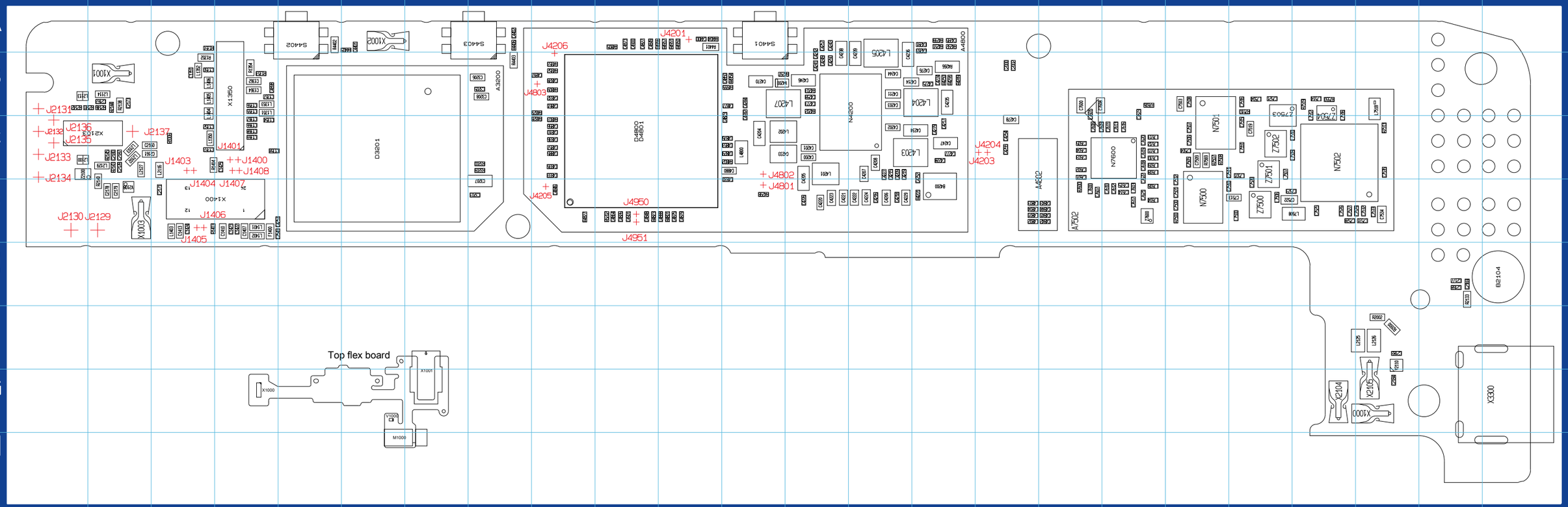

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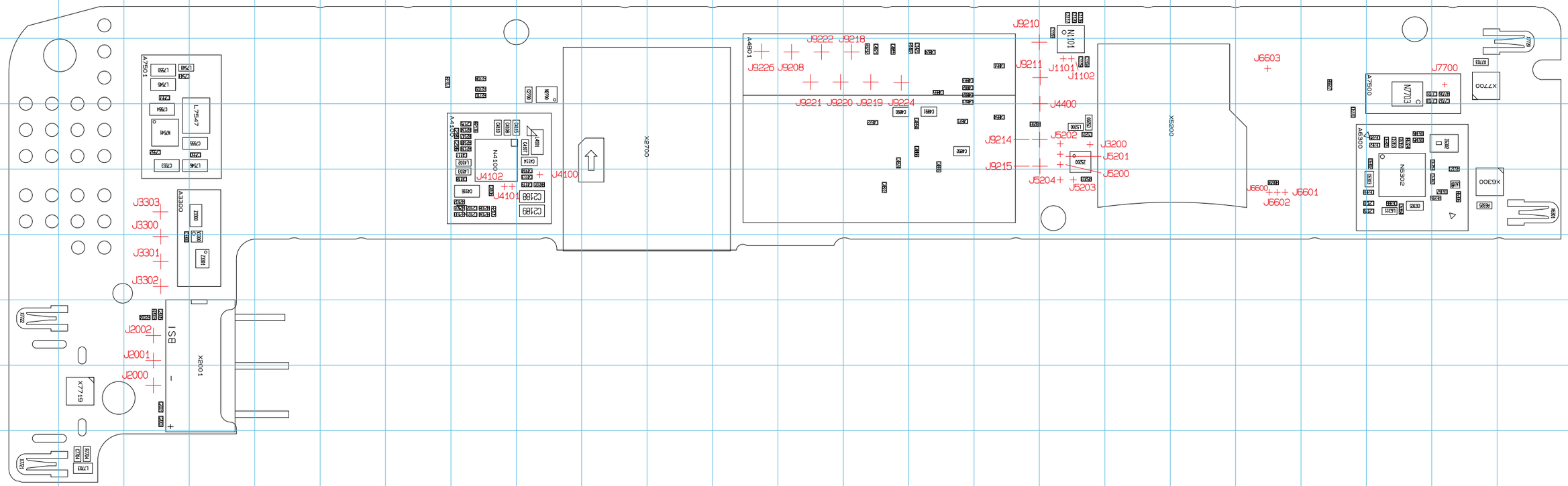

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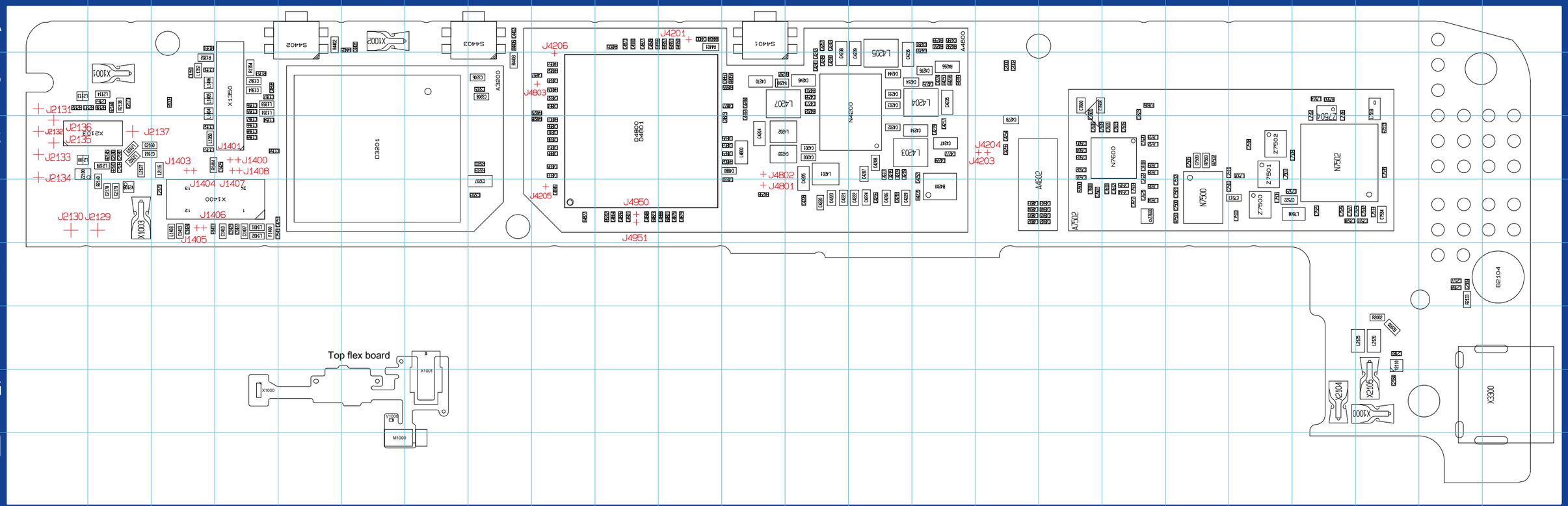

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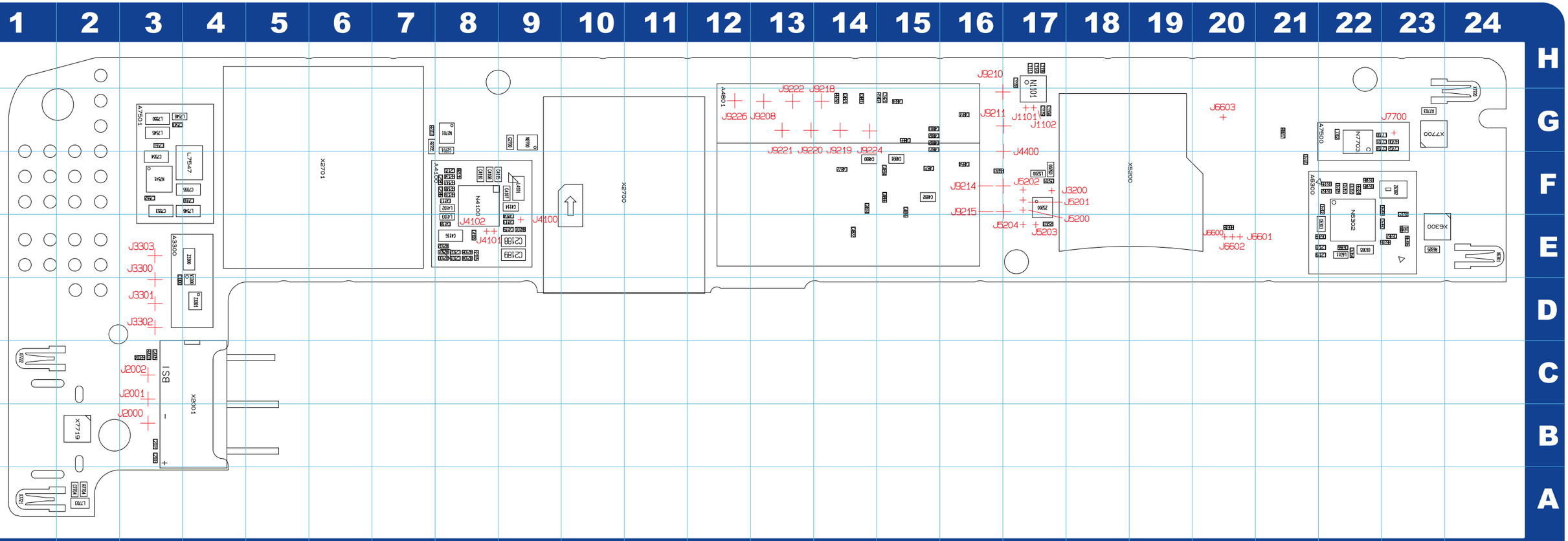

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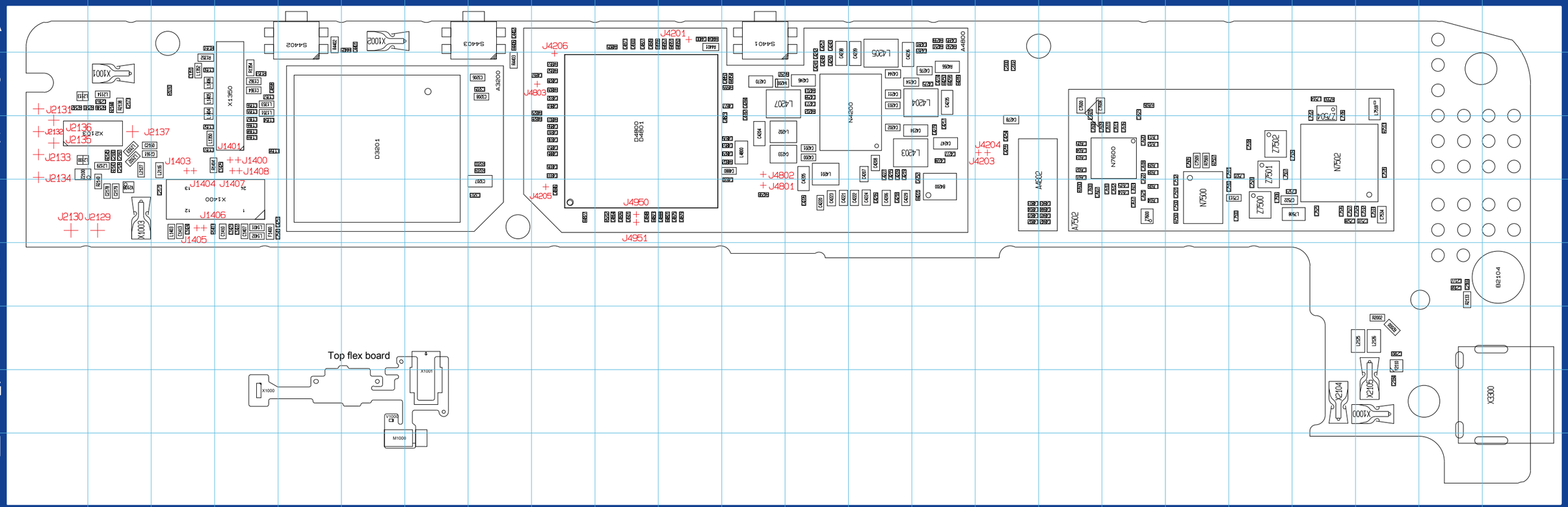

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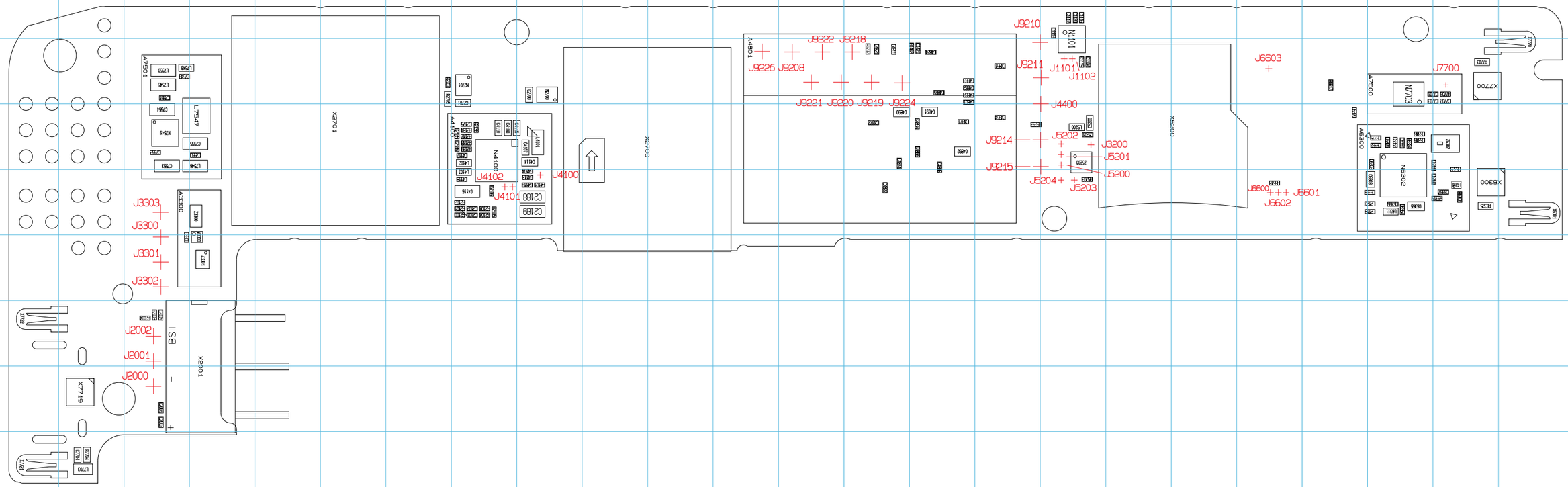

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C1104	G17	C4106	E8	C4871	F15	C6362	F22	L2120	E22	R		R6323	F23	X7720	G24	J3303	E3	J9219	G14
C1116	H17	C4107	F9	C4872	F14	C6363	F22	L4101	F9	R1402	G15	R6324	F22	X7721	A1	J4100	E9	J9220	G13
C1117	H17	C4108	F8	C4874	F14	C6364	E22	L4102	F8	R2003	C3	R6325	E23	X7722	C1	J4101	E8	J9221	G13
C1118	H17	C4110	F8	C4882	G15	C6365	E22	L4103	E8	R2004	C3	R6617	G21	Z		J4102	E8	J9222	G13
C1119	G17	C4113	E9	C4883	G15	C6366	E22	L5200	F17	R2100	E8	R6618	E20	Z3300	E4	J4400	G17	J9224	G14
C1120	H17	C4114	F9	C4886	F15	C6367	E23	L6310	E23	R2101	E8	R7703	G23	Z3301	D4	J5200	F17	J9225	G12
C1421	G15	C4115	F9	C4890	F14	C6369	E22	L6311	E22	R2102	E8	R7704	A2	Z4204	B3	J5201	F17		
C2001	B3	C4116	E8	C4891	F15	C6370	F21	L7545	G3	R2104	E8	R7706	G23	Z5200	F17	J5202	F17		
C2003	B3	C4117	F8	C4892	F15	C7543	G3	L7546	F4	R2105	E8	R9292	G14	Z6302	F23	J5203	E17		
C2005	C3	C4118	E8	C4894	F15	C7550	F4	L7547	F4	R2108	E8	R9293	F16	Z6303	E24	J5204	E17		
C2101	E8	C4119	E9	C5200	F17	C7551	G3	L7548	G3	R2134	F8	V		Z7700	H23	J6600	E20		
C2102	E8	C4801	G15	C5201	F17	C7552	F3	L7550	G3	R2136	F8	V3300	D4	TST point		J6601	E20		
C2175	F8	C4802	G15	C6302	F22	C7553	F3	L7703	A2	R2139	F8	X		J1101	G17	J6602	E20		
C2185	F8	C4821	G14	C6303	E22	C7554	F3	N		R2147	F8	X2001	B4	J1102	G17	J6603	G20		
C2186	F8	C4822	E14	C6305	F22	C7555	F4	N1101	G17	R2148	F8	X2700	F10	J2000	B3	J7700	G23		
C2188	E9	C4824	G15	C6335	F22	C7701	G23	N2700	G9	R2705	G7	X2701	F6	J2001	C3	J9208	G13		
C2189	E9	C4851	G16	C6345	F22	C7702	G23	N2701	G8	R2707	G7	X5200	F19	J2002	C3	J9210	G17		
C2700	G9	C4854	F16	C6346	F22	C7703	G23	N4100	F8	R4101	E9	X6300	E23	J3200	F17	J9211	G17		
C2701	G8	C4855	G14	C6359	F23	C7704	A2	N6302	E22	R5203	E17	X6301	E24	J3300	D3	J9214	F17		
C3300	D3	C4865	G15	C6360	E23	L		N7541	F3	R6306	E23	X7700	G23	J3301	D3	J9215	F17		

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